

5-1987

Σary

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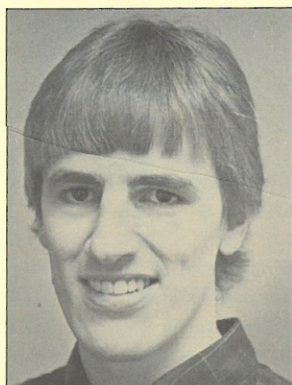
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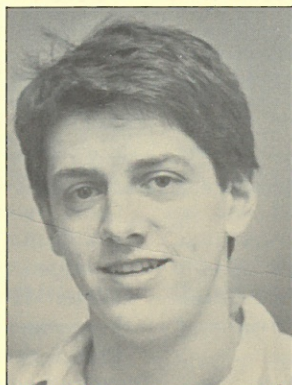
Σ ary

Newsletter of the Moorhead State University Mathematics Department

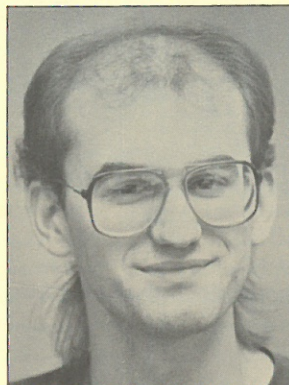
May, 1987



Schroeder



Stone



Wendt

MSU Students Win National Competition

A team of three MSU students took first place in the third annual Mathematical Competition in Modeling, an event sponsored by the U.S. Department of Education.

The competition, which attracted 150 teams from 118 colleges and universities across the United States and Canada, was established to promote the study of applied mathematics. The MSU team shared first place with the University of Colorado at Denver, Rensselaer Polytechnic Institute and Calvin College.

Competing teams could choose to solve either of the two problems presented in this year's MCM. One of these, a safety problem taken directly from an article in the *Indianapolis Star*, asked students to determine the maximum height to which a mixture of sand and salt used to treat midwestern roads during winter storms should be stored under a domed structure. Since front loaders are used to fill the dome at the beginning of winter, and to remove the stored material as needed during the storms, there is a concern for the safety of the front loader operators, due to shifting of the stored material. Moorhead State and the University of Colorado at Denver had the best models for this problem, which was studied by 31 teams.

The MSU team consisted of:

- * Dan Schroeder, a junior mathematics major from Pelican Rapids (a 1984 graduate of Pelican Rapids High School) and the son of Mr. and Mrs. Donald Schroeder.
- * Tom Stone, a junior math/computer science major from Canby (a 1984 graduate of Canby High School) and the son of Mr. and Mrs. James Stone.
- * Danny Wendt, a senior math/industrial chemistry major from Detroit Lakes (a 1982 graduate of Frazee High School) and the son of Mr. and Mrs. Herbert Wendt.

The team will travel to the Operations Research Society of America's meeting in New Orleans on May 4-6 where they will present their solution. They've also been invited to the International Association for Mathematical Modeling (IAMM) conference in St. Louis next August. In addition, the team's solution will be published in the IAMM journal, *Mathematical Modeling*.

MSU's team was coached by Dr. Ronald Jeppson. Jeppson joined the MSU faculty in 1980 on receiving his Ph.D. degree in numerical analysis from Montana State University. His main responsibilities at MSU have been to teach and to develop courses, in applied mathematics and statistics. Three years ago Jeppson developed a course in mathematical modeling, a topic which is taught in relatively few undergraduate departments. This course helped to prepare our team to win the competition.

The Mathematics Department: 1887-1987

- Shelda Warren

This is MSU's Centennial Year. That should come as a surprise to no one. Centennial years have a way of never sneaking by. They are inevitably accompanied by balloons and parties, and by reaffirmations of goals. They are cleansing things that allow us to plan for the future as well as to review the past. And just as certainly as the balloons and parties, come the histories. The histories come, not only to inform but also to preserve and to record, however incompletely, information that might be used in the future, perhaps during the bicentennial with its larger parties and louder music. The Mathematics Department is not immune to stirrings of collegiate pride. We also hunger for some sense of continuity, and although more exhaustive histories of the Department exist, we answer the compelling centennial call by putting forth another, an abridged form for popular consumption—a history of the Mathematics Department in a nutshell, as it were.

Today, with the depth and breadth of courses offered in the Department and the increased dependence upon new technology, it is difficult to imagine what it must have been like to be a member of the Mathematics Department during its childhood. For the first seventy of the past one hundred years the department consisted of a single instructor and during this period to be a member of the Mathematics Department meant to BE the Mathematics Department.

Catherine Leonard held the position of mathematics instructor from 1906 until 1944 and was followed in 1945 by Marion Smith who continued on the faculty for 37 years. The Moorhead State Teacher's College enrollment in the fall of 1945 was 243 students and at the time of Miss Smith's arrival there was no independent Department of Mathematics. Instead there was a Division of Mathematics and Science, consisting of Miss Smith, one geography and two science professors.

While a general education course in mathematics was required of all students, the Division's primary responsibility was to help train elementary and secondary school teachers. When Miss Smith arrived, the mathematics curriculum consisted of college algebra, trigonometry, analytic geometry and three quarters of calculus. Under her leadership the offerings were soon expanded to include a fourth quarter of calculus, statistics, solid analytic geometry, the theory of equations, the mathematics of investment and a computer science course utilizing the computer at N.D.S.U.

As the school grew and evolved from Moorhead State Teachers College to Moorhead State College, and finally to Moorhead State University, the mathematics curriculum changed to serve the needs of students entering an increasingly varied job market. The degrees of Bachelor of Science and Bachelor of Arts in mathematics were offered and the master's degree (now defunct) and the fifth year program were initiated.

Naturally, with the expanded course offerings and increased student load, the need for faculty grew as well. Two mathematics instructors at the campus high school, Shelda Jacobson Warren and Werner Brand, became part-time mathematics instructors at the college level and in 1960 Everett Warren brought the full-time mathematics faculty at Moorhead State College to a grand total of two. There was no secretary. Faculty members routinely taught sixteen to twenty hours each week.

The 1960's was a decade of unparalleled growth in the Department. Derald Rothmann was hired in 1962, Marvel Froemming in 1963 and Warren Thomsen in 1965. In six years, the mathematics faculty had increased by 500%. The expansion continued until the department that was not a department and that in the early years boasted only one faculty member, had developed into a department that numbers 22 in 1987.

Having established the Mathematics Department as a department in its own right in 1958, Moorhead State College was confronted with what was possibly,

after "What should we eat?", the most fundamental question known to man: "Where should we put it?" It was a question for which there seemed to be an infinite divergent series of answers. From the third floor of MacLean Hall in 1945, the Mathematics Department was located successively in Hagen Hall, the Center for the Arts, Weld Hall, Bridges Hall and was finally returned, in the end, to third floor MacLean.

One can only guess where the Department will be housed in the next hundred years, what courses will be offered, and what marvelous new technology will be employed. Surely there will be a historian in the bicentennial year to celebrate the progress of our next century.

(Shelda Warren holds B.S. and M.S.Ed degrees from Moorhead State University and the Ed.S. degree from George Peabody College for Teachers. She joined the MSU faculty in 1955.)



Barlage

MSU Thanks Former Mathematics Major - Derald Rothmann

Several articles have appeared in recent months thanking a former MSU mathematics major, Dale Barlage, for making an extremely generous donation of \$300,000 to Moorhead State University. The MSU Mathematics Department wishes to congratulate Dale on his success and to thank him for remembering MSU.

When Dale enrolled at MSU, he became my advisee and I remember meeting a very young (now he is only 6 years younger than I), pleasant and enthusiastic person with a great attitude. Even then I suspected that he was a doer, one who was willing to work in order to succeed. Obviously my first impression was correct.

Dale, a Wheaton Minnesota native, graduated from MSU in 1968. While at MSU he served as the student senate president. After graduating, he taught high school mathematics for one year. He then worked two years as a mathematician for the Central Intelligence Agency prior to joining Dean Witter Reynolds Inc., of Wayzata, Minnesota, where he is Senior Vice President of Investments. Dale has been ranked among the top one percent of all brokers in the United States for the past ten years.

Recently, while digging through some old grade books from the mid-sixties, I spotted the name Dale Barlage. I noted that he ranked number one in the class, but I already knew that. In addition I was able to recall, with great fondness, several other students from that period. I couldn't help wondering where they are and what they are doing. Please let us know.

(Derald Rothmann received his B.S. from the University of North Dakota, the M.A. from the University of Kansas and Ph.D. from the University of Missouri, Rolla. He joined the MSU faculty in 1962.)

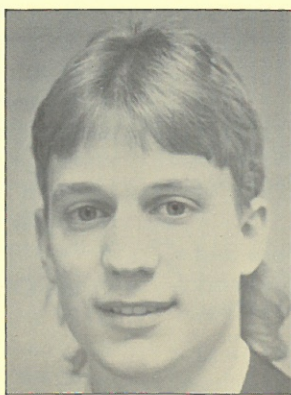
Putnam Exam Results

Farchid Ketabchi, an MSU junior mathematics major from Iran, scored in the top 15 percent of individuals taking part in the 1987 William Lowell Putnam Mathematical Competition, a competition sponsored by the Mathematical Association of America that attracts the best mathematical talent in the United States and Canada. There were 2,094 contestants from 358 colleges and universities.

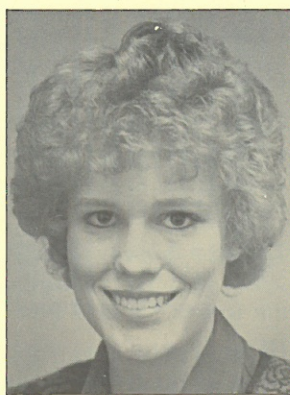
The MSU team, composed of Ketabchi, Daniel Schroeder, Pelican Rapids, and Danny Wendt, Detroit Lakes, placed 103 out of 270 teams. The students were coached by Jim Drouilhet, Don Mattson, Derald Rothmann, and Bill Ritchie.



Sapa



Sheridan



Warren

Senior Awards Announced

Each year the Mathematics Department awards memberships in professional societies to outstanding senior mathematics students. These awards are financed by contributions from department members.

Students receiving the awards this year were:

* Kari Larson Sapa (Moorhead), membership in the National Council of Teachers of Mathematics.

* John Sheridan (Crookston), membership in the Mathematical Association of America.

* Dona Warren (Moorhead), membership in the Mathematical Association of America.

\$50,000 Health Institute Grant Awarded to MSU Statistician, Two Researchers

A \$50,000 grant from the National Institute of Health has been awarded to Christine McLaren, a Moorhead State University assistant professor of mathematics, and two other researchers to develop a computerized, statistical method to aid in the diagnosis of anemia, a blood disease.

McLaren, a biostatistician, will work on the project with Gary Regula, president of Applied Technology Ventures in Cleveland, and Dr. Gary Brittenham, a hematologist at Case Western Reserve University's medicine department.

The grant is part of the health institute's Small Business Innovative Research awards program.

Two Invited to Conference

Two MSU mathematics majors were among 147 women across the country selected to attend the Waterfall Glen Conference: Science Careers in Search of Women, which was held in April at the Argonne National Laboratory in Argonne, Illinois.

Betty Heitzman, a senior from Fargo, and Cheris Kelley, a junior from Dawson, attended the program sponsored by the Argonne Laboratory.

News of Retirees

Marion V. Smith (1982). Since her retirement Marion Smith has been enjoying her hobbies of photography and travel. She has visited India, Nepal, Kenya, Russia, Mongolia, China and New Zealand and has taken many photographs during her travels. Miss Smith is able to enjoy these trips again when, as a member of the Fargo-Moorhead Camera Club, she presents slide shows to various local organizations.

Bill V. Ritchie (1984). Bill and Eleanor Ritchie live in Fargo. During these first years of retirement they have traveled to Hawaii and England. Ritchie is active in the Fargo Contract Bridge League and this year was one of the coaches of the MSU students who competed in the Putnam Examination.

Warren J. Thomsen (1986). Warren and Dorothy Thomsen are spending the first year of their retirement in Yarnell, Arizona, where they are teaching young adults from a Mexican orphanage. Warren reports that they arrived on September first and began teaching English as a second language two days later.

Department News

Derald Rothmann is secretary-treasurer of the North Central Section/Mathematical Association of America. The North Central Section is one of 29 sections of the MAA and comprises Minnesota, Manitoba, Saskatchewan and portions of North Dakota, South Dakota, and Ontario.

* * * * *

"Restricted Range Approximate Solutions of Nonlinear Differential Systems with Boundary Conditions," a paper by Ronald Jeppson of MSU and Gary Bogar of Montana State University, appeared in the May 1986 issue of the *Journal of Approximation Theory*.

* * * * *

New on the MSU Mathematics faculty this year are Julie Legler, Christine McLaren, and Vernon Wolff. Legler has an M.S. in statistics from the University of Minnesota and previously taught at Concordia College and North Dakota State University. McLaren, a biostatistician, received her Ph.D. in 1983 from Case Western Reserve University where she continued to teach and do research until coming to MSU. Wolff came here from a position as Associate Professor of Mathematics at Jamestown College. He received his Ph.D. in mathematics education from the University of Minnesota in 1985.

* * * * *

Paul Flasch, Barbara Rath, and Harley Reed, each of whom has taught for the Department in the past, had temporary one-year positions here this year. Flasch and Rath are finishing master's degrees at N.D.S.U. while Reed completed an M.S. there in 1969.

* * * * *

A paper by Christine McLaren was published in the June issue of the *Statistician* in a special issue on statistical modeling. Co-authors of the paper, "Statistical Modeling of the Distribution of Red Blood Cell Volumes in Iron Deficiency Anemia Using the Expectation-Maximization Algorithm" were G. M. Brittenham, M.D. and V. R. Gordeuk, M.D. from Case Western Reserve University's medicine

department, and L. J. Keating and M. A. Hughes of the Northern Ohio Red Cross Blood Services in Cleveland. McLaren received a fellowship from the American Heart Association to complete the research presented in this paper.

* * * * *

Vernon Wolff spoke at the annual fall meeting of the North Dakota Council of Teachers of Mathematics at Minot. His talk, presented to math educators at the senior high school and college level, was entitled "Patterns for Problem Solving in Pascal's Triangle."

* * * * *

Christine McLaren presented a paper on "Detection of Two-component Mixtures of Lognormal Distributions in Doubly-truncated Data Using the EM Algorithm: Analysis of Erythrocyte Volumes in Myelodysplastic Anemia" at the 13th International Biometric Conference in Seattle. The paper was a result of research she did at the University of Wales College of Medicine, Cardiff, Wales, and was supported by a University of Wales Blood Fund Research Grant.

* * * * *

Carl Carlson moderated the section on mathematics for elementary teachers at a St. Paul conference on the Implications for Mathematics Education in the Carnegie and Holmes reports on restructuring education. The conference was sponsored by Minnesota Mathematics Mobilization.

* * * * *

Walter Sizer is spending this year on sabbatical leave in Kuantan, Malaysia. He is teaching mathematics to Malaysian students in an English language school. Sizer wrote that he was amused to find that he had traveled halfway around the world to teach finite mathematics from the same text used at MSU.

* * * * *

Bette Midgarden is in the first year of a two-year leave of absence from the Department to serve as Assistant Vice President of Academic Affairs.

* * * * *

Four Moorhead State University students passed the first in a series of exams administered by the Society of Actuaries and three others passed the second exam.

The exams are part of a 10-section series leading to Fellowship in the Society.

Passing the first test were:

Daniel Schroeder, an MSU junior and a 1984 graduate of Pelican Rapids High School, the son of Mr. and Mrs. Donald Schroeder.

Thomas Stone, an MSU junior and a 1984 graduate of Canby High School, the son of Mr. and Mrs. James Stone.

Glenn Bakken, an MSU junior and a 1984 graduate of Roseau High School, the son of Luverne Bakken.

Carmen Walter, a 1986 MSU graduate from Cloquet who is now employed at Western States Life in Fargo. Carmen is a 1979 graduate of Cloquet High School and the son of Mr. and Mrs. David Allen Walter.

Passing the second test in the series:

Patrick Larson, a 1986 MSU graduate from Moorhead and the son of Mr. and Mrs. Robert Larson. He's a 1982 graduate of Moorhead High.

Danny Wendt, an MSU senior from Detroit Lakes and the son of Mr. and Mrs. Herbert Wendt. He's a 1982 graduate of Frazee High School.

Kevin Russell, a 1985 MSU graduate from Albuquerque, New Mexico.

Alumni News

Steve Schmitz (B.S. 1986). Steve has been teaching math to junior and senior high students in Arlington, MN. In addition, he has been doing some coaching.

Kirk Scott (B.S. 1982). Kirk lives in Moorhead and is a Teaching Assistant in the Division of Mathematical Sciences at NDSU teaching both Calculus I and Algebra I while studying computer science.

Cheryl Prososki (B.S. 1982). Employed as a Controller with G.W. Transportation Services Inc. (a freight brokerage business) in Maple Plain, MN. Cheryl is married, has two children, and lives in Montrose, MN.

Harold Hoium (B.A. 1972). With a double major in math and computer science, Harold is Director of Operations for Dimensional Medicine, Inc. in Minnetonka, MN. This company makes a medical workstation based on state-of-the-art software and hardware that does

two and three dimensional reconstruction of the anatomy based on cat scan and magnetic resonance data. The workstation is used for diagnosis and surgical planning. The company is also entering the world of custom prostheses. Harold is single, lives in Eden Prairie, and is actively enrolled in the MBA program at the University of Minnesota.

ViAnn Olson (B.S. 1976). With a math major and minors in computer science and coaching, ViAnn teaches math and computer science courses and is the head of the Mathematics/Computer Science Department at Cathedral High School in St. Cloud. She also coaches a newly formed math team for the Minnesota High School Mathematics League. Recently she was a consultant (reviewer) on a computer literacy textbook for Allyn & Bacon.

Suzanne Olson (B.S. 1985). Suzanne has been offered a position teaching math and biology at the Bourbon, Missouri, high school. Her husband teaches industrial arts at the same school. They have two children.

Pete Ringdahl (B.A. 1985). Pete is married to Susan Hazard who is an MSU accounting graduate. He has been employed as a student actuary with Provident Life Insurance Company in Bismarck for a little better than a year.

Rebecca (Hegland) Soloway (B.S. 1978). After several years at home with two small children, Genevieve, now 9, and Gareth, now 6, Rebecca has taken a part-time math tutoring position at The Carroll School in Lincoln, Massachusetts. This is a school for children of average or above average intelligence with learning disabilities. She is also a member of the board of The Lexington Waldorf School and is secretary of the Anthroposophical Society of Greater Boston, Inc. Her husband Jerry teaches at the Waldorf School. Rebecca is also pursuing graduate work in education at Boston University.

Julie (Carlson) Henry (B.S. 1979). Julie is employed at Hewlett-Packard in St. Paul as a Commercial Computer Sales Representative and is a member of the 3M sales team. She is married to Scott Henry, a 1980 MSU grad in Mass Communications. They have one daughter, Jessica Lane, born in September.

Debbie Foley (B.A. 1983). Currently attending graduate school at Iowa State University working on a master's degree in human nutrition. Debbie is a research assistant looking at the bioavailability of zinc in humans. She has received the Premium For Academic Excellence Award and is on the Executive Council of the Graduate Student Senate as Communications Chair. Debbie is single and lives in Ames, Iowa.

Ken Turnquist (B.A. 1983). Ken is employed as an Actuarial Assistant at Western States Life Insurance Company in Fargo and recently became an Associate in the Society of Actuaries. Ken married Linda Tellberg in June of 1985.

Stephen J. Cyr (B.S. 1978). Steve has a double major in math and computer science with a chemistry minor. He is employed as a Project Programmer at IBM in Rochester. Steve is married, has two children, Bradley Thomas, 2 and Peter Michael, 1.

Carla Thorson (B.S. 1986). Carla lives in Colorado Springs, Colorado. She has a math major with a computer science minor and is presently teaching math in grades 7-12 at Elbert Public School District 200 in Elbert, CO. Carla also served as Handball Director for St. Paul United Methodist Church in Colorado Springs.

Karin Schumacher (B.S. 1978). Karen is a math/physical education major and teaches algebra and geometry at Moorhead High. She also coaches volleyball and softball there and in 1981 was named Minnesota Volleyball Coach of the Year.

Merilee Potucek (B.A. 1982). Merilee is employed at the Charlson and Marbem law firm in Thief River Falls. Her husband Mark is manager of the Radio Shack there.

Lonnie Schultz (B.A. 1982). With a double major in math and computer science and an M.S. degree in statistics from the University of Iowa, Lonnie is currently taking classes and working on a Ph.D. in biostatistics at the University of Michigan. She has been employed as a biostatistician at Henry Ford Hospital in Detroit, Michigan, since June 1984.

Terry Shaffer (B.A. 1980). As a statistician with Northern Prairie Wildlife Research Center, U.S. Fish & Wildlife

Service in Jamestown, ND, Terry provides statistical support to wildlife biologists engaged in waterfowl research in the U.S. and Canada. After graduating from MSU in 1980, Terry went on to complete his master's degree in applied statistics from NDSU in 1982. His wife Kris works part-time at Jamestown Hospital and they have two children, Jill, 6, and Heidi, 3.

Delles Solie (B.S. 1980). Delles lives in Walden, Colorado, and teaches math at North Park H.S. where he is also the football coach.

Katie Carlson (B.S. 1986). Katie lives in Harlem, Montana and is employed as a junior high math teacher by the Harlem School District. She is also the yearbook advisor at the high school.

Ilo Lewis (B.S. 1983). Ilo is employed as an Associate Systems Analyst at NCR Comten, Inc. in Roseville, MN. Ilo has a math major with a minor in computer science.

Rosanne McFadden (B.S. 1979). Rosanne is employed as a manager/buyer for Tobak & News in St. Paul and also attends NEC Brown Institute in Minneapolis where she is enrolled in the Electronic Technician Program.

Dave Jacobson (B.A. 1980). Employed as a Reliability Engineer for IBM in Rochester, Dave is also serving as a focal point in the IBM statistical/mathematical community for the IBM shared university research programs which fosters cooperation between IBM and leading research universities around the world. This past year Dave was promoted from Associate Reliability Engineer to Senior Assistant Reliability Engineer. Dave recently attended an international reliability research conference at the University of Missouri in Columbia.

Marty Soukup (B.A. 1981). With a double major in math and management, Marty is employed as a Sales Representative for Medline Industries, Inc. in Duluth. Medline is a major manufacturer and distributor for medical products throughout the world. Their home office is based in Mundelein, Illinois.

John Hilgers (B.A. 1978). A Senior Systems Analyst at UNISYS Computer Systems in Eagan, MN since 1978, John is currently working onsite at the Fairview

Hospital MIS department, writing an online patient billing system. John is married and has two children, Melissa, 10, and Ryan, 7.

Mark Johnston (B.S. 1978). Mark lives in Fargo and teaches mathematics at Shanley High School.

Jim Duncan (B.S. 1986). Jim lives in Fairfax, MN where he teaches math and computer science for the Fairfax School District.

Greg Wilson (B.A. 1981). With a double major in math and business administration, Greg is Office Manager at Wilson Supply Co., a family-owned wholesale supply business. He is married and has one son.

Mark J. Eggleston (B.S. 1977). Mark is a Systems Programmer for the Hemar Service Corp. of America in St. Paul. Mark and his wife Kris have three children, Sarah, 6, Jennifer, 4, Michael, newborn.

Scott LaChance (B.S. 1984). An Ensign with the United States Navy, Scott is in the Nuclear Propulsion Program in the Designated Submarine Service. He married Jodi Boeddeker (a 1985 MSU special ed major) on Feb. 28, 1987.

Cynthia A. Solberg McKinley (B.A. 1976). Cynthia is Chief of Operations Training with the U.S. Air Force, 3rd Communications Squadron, Kapaun Air Station in Germany. She completed an M.S. degree in International Relations, and completed Squadron Officer School by correspondence. She was named 3rd Communication Squadron Jr. Officer of the Year in 1986 and was 1st runner-up as 1st Space Wing Junior officer of the Year in 1986. Cynthia is married and has two children, Cara, 4, and Tanya, 3.

Richard Collison (B.A. 1979). A resident of Naperville, Illinois, Richard is Manager of the Compensation Division of Osco Drug in Oak Brook, Illinois.

Geri Rach (B.A. 1977). Geri was recently promoted to the position of Manager-Switched Services Costs at NW Bell Telephone in Omaha, Nebraska. She was named Outstanding Board Member in Omaha Women of Today in 1986.

Robin (Kremer) Ladd (B.S. 1982). A very happy resident of Charleston, South Carolina. Robin teaches 8th grade algebra and general math at the Berkeley County School System and is expecting

her first child the end of May. This past year, she also taught a graduate course "How to Teach Math" at The Citadel-Military College in Charleston. Robin was also asked to teach an inservice course for all county teachers on how to teach middle school mathematics.

Lester Olson (B.A. 1977). An Assistant Professor at the University of Pittsburgh, Lester will present a paper in July of this year to the International Society for the History of Rhetoric in Tours, France. The Speech Committee Association awarded him a Karl Wallace Award to conduct research at various institutions in Paris, including the Bibliotheque Nationale, the Archives Nationales, the Musees Nationaux au Louvre and others.

Spencer Hjelle (B.A. 1976). Spencer lives in Virginia, MN, and works for the Minnesota Department of Revenue in Eveleth where as a Tax Examiner IV, he is Field Office Supervisor. A Life Support Specialist for the North Dakota Air National Guard holding the rank of Technical Sergeant, Spencer just completed his seventeenth year of service. He has taken up running for recreation and finished in the top half for last year's Twin Cities Marathon with a time of 3:55.

Jon G. Stenerson (B.A. 1984). A double major in math and computer science Jon is a graduate student at New Mexico State University where he is working towards a Ph.D. in mathematics.

Brian Hanson (B.A. 1978). Brian graduated from MSU with a double major in mathematics and geography. He is now an Assistant Professor of Climatology in the Department of Geography at the University of Delaware, having responsibility for courses in meteorology, paleoclimates, and global climate modeling.

Brent Rognlie (B.A. 1985). A graduate student and Teaching Assistant at Kansas State University, Brent is studying statistics and is teaching freshman courses in both math and statistics. Brent and wife Sue are new parents of a son, Joshua Charles, born on August 2, 1986.

Sue Haller (B.S. 1984). Sue teaches in Brainerd, MN, and coaches girls' basketball, volleyball, and softball.

Mary (Mikkelsen) Block (B.A. 1981). Mary just started a new job in the Customer Service Department of the Maintenance Engineering Company in Fargo. She and husband Larry are proud parents of Katie, born in August 1986.

Scott Peterson (B.A. 1985). Since graduating from MSU Scott has been a computer science graduate student at Purdue University where he will complete the M.S. degree this spring. He has been a Teaching Assistant while at Purdue and a part-time programmer for a software company in West Lafayette, Indiana.

Russell Hammond (B.A. 1985). Russ is now an Actuarial Assistant with Lutheran Brotherhood Insurance in Minneapolis.

Claudia (Brainerd) Wiebold (B.A. 1981). A Senior Systems Analyst in the Information Systems Department of Minnesota Mutual Life Insurance Company of St. Paul, Claudia is currently working on new product development. Claudia and husband Don (a 1980 MSU computer science graduate) moved into a new home in March and say that their most exciting news for this year is that their first child, Nathan Ryan, was born on March 15th. Don works as a Senior Programmer with Unisys in Roseville.

Steve Riewer (B.S. 1984). Steve is a high school math teacher, junior high basketball coach, and varsity baseball coach in the Bertha-Hewitt school system. He married Cathy Runyan of Verndale this past February. Cathy also teaches and coaches at Bertha-Hewitt.

John Bisek (B.S. 1977). A Senior Programmer with Unisys Corporation in Roseville, John lives in St. Paul with wife Mickie and daughters Carly and Rachel.

Kenneth Welken (M.S. 1974). Ken is Mathematics Department Chairperson and teaches seventh grade mathematics at Moorhead Middle School-South Campus. The Middle School Mathematics Department is proud of its students who have taken first place in their division of the Tri-College Mathematics Contest for the past five

years and of its Mathcounts team which took first place in the state of Minnesota in 1986. Ken and wife Jan have two children, Nicholas, 5, and Nathan, 9.

Gary Seiler (B.A. 1986). A graduate student in applied mathematics at Iowa State University, Gary has been a Teaching Assistant and the recipient of a PACE Scholarship. He reports that he enjoys his coursework and the new experience of teaching but the lure of the job market is so strong that he may place a "hold" on his work towards a master's degree. Gary will marry Mary Ann McDonough, a MSU alumna, next August.

Joseph Riesen (B.A. 1984). Joe is a Teaching Assistant at the University of Nebraska-Lincoln where he received his M.S. in December, 1986. He is currently working towards the Ph.D. in commutative ring theory.

Theresa (Fedor) Riesen (B.A. 1985). Theresa is also a Teaching Assistant at the University of Nebraska-Lincoln and will complete work on the M.A. degree this summer. Presently Theresa and Joe plan to move either to Minneapolis or to Evanston, Illinois, where Theresa will take an actuarial job and Joe will continue graduate work.

Rebecca Lewin (B.S. 1986). A graduate student and Teaching Assistant at the University of Iowa in Iowa City, Becky has been busy studying and working in the Mathematics Tutorial Laboratory.

David Bergstrom (B.A. 1979). Dave finished the last of the ten exams administered by the Society of Actuaries in May 1985 and is now a Fellow of the Society. He is Assistant Vice President and Associate Actuary with Western States Life Insurance Company in Fargo.

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